PRODUCT – ADC

TOPIC – EVERTZ 9625 SERIES MASTER CONTROL SWITCHER / LOGO INSERTERS

DATE: 04/26/2004

REVISION HISTORY

Version	Protocol	Date	Author	Description
1	T37 - V1.9	6-18-2004	C. Kocsis	Initial Composition

DESCRIPTION

The Evertz 9625 series devices combine various combinations of master control switcher and logo insertion capabilities. Two device drivers are needed to control all of the functionality. The base driver is the “Evertz E9625 MCS”. This driver controls the switching, keying, and audio over functionality of the device. The optional second driver “E9625LGA-DSK Logo SubDev” controls the Logo generator functionality. Only one physical connection to the device is required when using the two drivers.

REQUIREMENTS

Device Server version 10.0.1 or higher is required, containing the E9625 MCS and optionally the E9625LGA-DSK Logo SubDev Device Drivers.

Two models of the 9625 series were tested. The 9625 LGA-DSK model was tested using firmware version 1.01 build 407. The 9625SW device was tested using 1.00 build 459 (the corresponding firmware for the HDSW version is 1.03 build 112). Ensure that the firmware on your device is not older than this.

CONNECTIONS

The following custom cable is required to connect the Evertz 9625 to the Imagine Communications ADC system:

Imagine Communications ADC	Evertz 9625
2	2
3	7
7	8
8	3

Communications Settings: 38,400 baud, 8 data, no parity, 1 stop.

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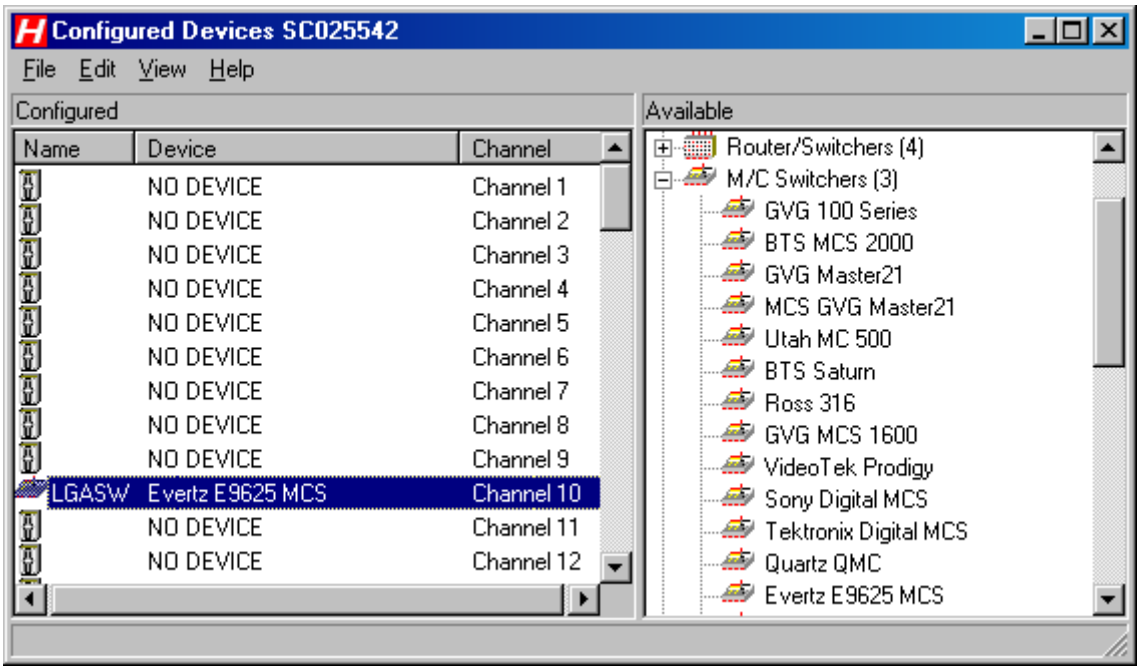
ADC NT / WIN2K CONFIGURATION

The Evertz 9625 Master Control Switcher and logo inserter products are controlled using two device drivers on ADC. First, the Master Control Switcher driver should be configured as follows:

CONFIGURE THE QUARTZ QMC DRIVER

1. Launch the ADC Configuration Utility and locate the icon that represents your Device Server. Right-Click on the icon, and select **Configured Devices** from the menu.

2. Locate the **Evertz E9625 MCS** driver in the **Available** column on the left, under the **M/C Switchers** category. Left-click and drag the Evertz E9625 to one of the Channels on the **Configured** column that reads “NO DEVICE.”



3. Double-click on the LGASW device that was just created. From the resulting dialog select the **Serial Port** tab. Choose the physical port the Evertz is connected to. The Imagine Communications Device Server is now configured properly to communicate with the Evertz.

4. The remaining switcher parameters are standard for all master control switchers. Please refer to the Device Server User Manual for more information.

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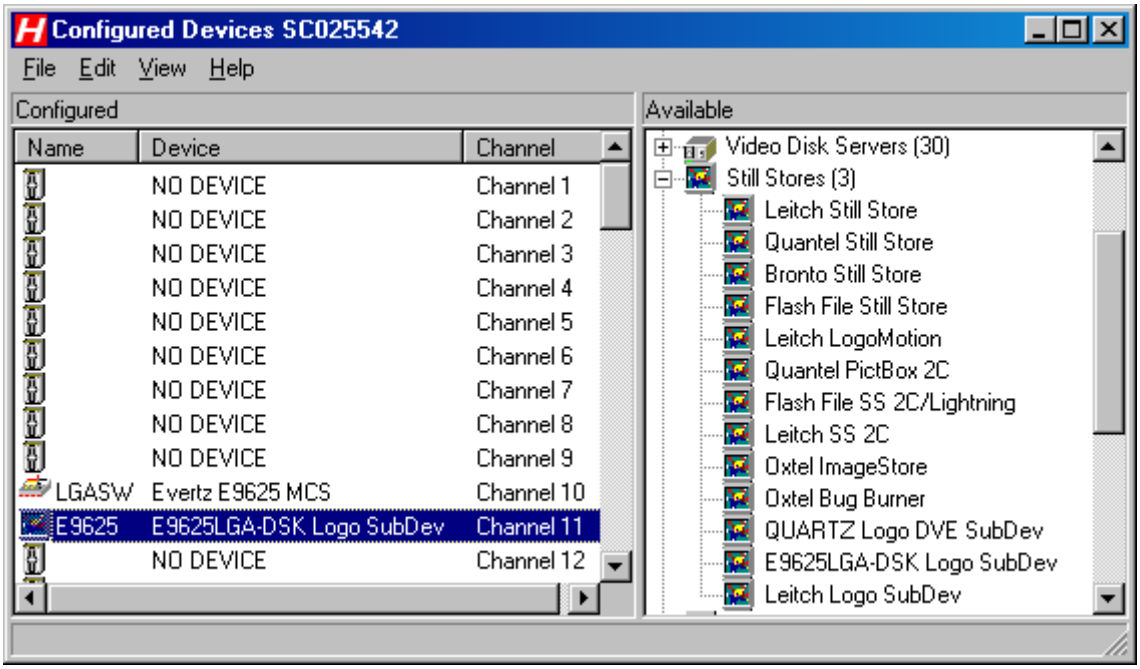
CONFIGURE THE QUARTZ LOGO DVE SUBDEV DRIVER

If you have the optional Evertz Logo sub-device, it should be configured after the MCS driver is configured:

1. Launch the ADC Configuration Utility and locate the icon that represents your Device Server. Right-Click on the icon, and select **Configured Devices** from the menu.

2. Locate the **E9625LGA-DSK Logo Subdev** driver in the **Available** column on the left, under the **Still Stores** category. Left-click and drag the E9625LGA-DSK Subdev to one of the Channels on the **Configured** column that reads “NO DEVICE.”



3. Double-click on the E9625 driver that was just created. Configure the following parameters on the General tab:

    a. The **Device Name** will appear in the Device Status and configuration windows on the client applications. The default name may be used but it is recommended to use unique names for easy identification later.

    b. The **ID Match Name** will be used in the Transmission List’s **ID Field** to let the system know that the event is intended for the Evertz device.

c. The **Back-Time value in frames** determines when commands should be sent to the Evertz. A non-zero value in this field indicates the number of frames that commands will be sent early (during preroll, before the play counter actually starts). This value is set at 1 by default, it shouldn't need to be changed. However if the timing of the Evertz Logo commands are off with respect to the switcher, this parameter may be changed to adjust the output timing. This parameter does not change the timing for secondary data commands, only A/V events.

4. The Evertz Logo Subdev does not have a configuration for a serial port. Instead, it sends its commands to the Evertz MCS driver, which maintains the serial connection. The last tab on the driver – **EvertzMCS Channel** is where you associate the two drivers.

*Note: You cannot use the Logo sub device driver without configuring the Evertz MCS device driver first.

The Logo Subdev must also be assigned to the Transmission List where the Evertz Switcher is used.

OPERATION

In addition to the standard master control switcher functionality, the Evertz 9625 products have additional Logo recall capabilities. For this reason, two ADC device drivers are required for control.

The Logo Subdevice uses A/V, Secondary A/V, and Secondary Data Events to execute the pre-loading and playout of Logos.

The Evertz MCS driver functions in a similar manner to the other ADC master control switcher drivers, which includes the Backup Switcher, Cascade and other related MCS functionality. The Evertz MCS also supports Audio Over and Keyer functions (including the Logo keyer, which is discussed below). See the ADC User Guide for details about any functionality not listed in this document.

EVERTZ 9625 LOGO A/V AND SECONDARY A/V EVENT DEFINITIONS

The following table describes the syntax of the available A/V and Secondary Data events on the Evertz. The A/V events are designed to encapsulate a frequently used combination of commands for the logo into a single event, while the Data Events provide maximum flexibility to control the commands sent to the Evertz. Some of these events can also be used in combination with Secondary Keyer Events, for more control over the behavior.

Type	Title Field Syntax	Parameter	Description	Range
A/V or Sec A/V	LOGO:logoNum	logoNum	The number assigned to the stored logo on the E9625. Cues in advance and displays the logo at the start of the event and off when the duration expires.	1..64
A/V or Sec A/V	LOGO-ON:logoNum	logoNum	The number assigned to the stored logo on the E9625. Cues in advance and transitions the logo on at the start of the event.	1..64
A/V or Sec A/V	LOGO-OFF:logoNum	logoNum	The number assigned to the stored logo on the E9625. Transitions the logo off at the start of the event.	1..64
Sec Data	LOGO-SELECT:logoNum	logoNum	The number assigned to the stored Logo on the E9625 to be selected for immediate display. Large files should be cued in advance with NEXT-LOGO.	1..64
Sec Data	NEXT-LOGO:logoNum	logoNum	The number assigned to the stored Logo on the E9625 to be prepared in advance for display.	1..64
Sec Keyer	N/A	N/A	Use the Secondary Keyer event with Keyer #4 to control the Logo Layer (display all active logos, or none)	

INTERNAL DOCUMENT

Number assigned by document control

FILE

File path

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